

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION KEP

PA ation	TENT COOPERATION PCT	
ranslation PA	ONAL PRELIMINARY EXA	e 70)
Applicant's or agent's file reference 150200067971 International application No. PCT/JP02/08217 International Patent Classification (IPC) or F04D 27/02	FOR FURTHER ACTION Ex International filing date (day/mon 12 August 2002 (12.08	ENotificationofTransmittalofInternational Preliminary amination Report (Form PCT/IPEA/416) (h/year) Priority date (day/month/year) 02)
Applicant	HITACHI INDUSTRIES	CO., LTD.
2. This REPORT consists of a total and a summer and and are the branched and Section 607 These annexes consists 3. This report contains indication and section for these annexes consists. I Basis of the priority III Priority III Non-estably IV Reasoned citations and contains and contai	mpanied by ANNEXES, i.e., sheets asis for this report and/or sheets control of the Administrative Instructions under the following items: ons relating to the following items: report	BEST AVAILABLE COPY velty, inventive step and industrial applicability egard to novelty, inventive step or industrial applicability ement
Date of submission of the dem	and	Date of completion of this report 11 August 2003 (11.08.2003)
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International application No.

Щ,	LERIN	ATIONAL PRELIMINARY EXAMINATION REPORT	PC1/JP02/08217
I. Basis	of the re	port	
1. With	regard to	the elements of the international application:*	
	the inte	mational application as originally filed	
$\overline{\boxtimes}$	the desc	cription:	
الاستا	pages	1-14	, as originally filed
	pages		, filed with the demand
	pages	, filed with the letter	
X	the clair		
الاسكا	pages	3,4,6-9	, as originally filed
	pages	, as amended (tog	gether with any statement under Article 19
Ì	pages	,	, filed with the demand
	pages	1,2,5 , filed with the letter	of 26 December 2002 (26.12.2002)
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	pages		, as originally filed , filed with the demand
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the in Thes	the lan the lan the lan or 55.3 the regard minary e contain filed to furnish furnish The st interne	to the language, all the elements marked above were available or furnished and application was filed, unless otherwise indicated under this item. In this were available or furnished to this Authority in the following language arguage of a translation furnished for the purposes of international search (undaguage of publication of the international application (under Rule 48.3(b)). In a guage of the translation furnished for the purposes of international prelimations. It is any nucleotide and/or amino acid sequence disclosed in the internation was carried out on the basis of the sequence listing: and in the international application in written form. The objective with the international application in computer readable form, the subsequently to this Authority in written form. The subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does attional application as filed has been furnished. The tatement that the information recorded in computer readable form is ideal furnished.	which is: der Rule 23.1(b)). ninary examination (under Rule 55.2 and/ international application, the international es not go beyond the disclosure in the
in th	This re beyond	the description, pages the claims, Nos the drawings, sheets/fig cport has been established as if (some of) the amendments had not been made the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)) sheets which have been furnished to the receiving Office in response to an ert as "originally filed" and are not annexed to this report since they).** Linvitation under Article 14 are referred to
and	70.17).	S y y	

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Int onal application No. PCT/JP02/08217

. Statement			
Novelty (N)	Claims	1-9	YES
	Claims		NO NO
Inventive step (IS)	Claims	1-9	YES
	Claims		NO NO
Industrial applicability (IA)	Claims	1-9	YES
	Claims		NO NO

Citations and explanations

Document 1: JP, 59-160098, A (Mitsubishi Heavy Industries, Ltd.), 10 September, 1984

Document 2: JP, 2001-090555, A (Mitsubishi Heavy Industries, Ltd.), 03 April, 2001

Document 3: EP, 435294, A (Daikin Industries, Ltd.), 03 July, 1991

Document 4: JP, 47-034897, A (Ishikawajima-Harima Heavy Industries Co., Ltd.), 23 October,

Document 5: JP, 9-195982, A (Kobe Steel, Ltd.), 29 July, 1997

Claims 1, 2 and 5

None of the documents cited in the ISR describes a turbo compressor comprising control means having a data base on the minimum angle of an inlet guide vane against the suction state, wherein the data base is updated by turbo compressor surging detection; nor is this obvious to a party

Claims 3, 4 and 6-9

None of the documents cited in the ISR describes the inventions of claims 3, 4 and 6-9 that are dependant on any of claims 1, 2 or 5; nor are these obvious to a party skilled in the art.